

REMARKS

Applicant respectfully requests reconsideration of this application.

Claims 1-2, 4-13, 15-18 and 20-22 are pending in this application.

Claims 3, 14 and 19 have been cancelled.

No claims have been added.

Claims 1, 9 and 17 have been amended.

Claims 9-12 were rejected under 35 U.S.C. §102(b) as being unpatentable over U.S. Patent No. 3,346,032 issued to Gulistan (hereinafter referred to as "Gulistan").

Claims 1-2, 4-8, 13, 15-18 and 20-22 were rejected under 35 U.S.C. §103(a) as being considered unpatentable over Gulistan in view of U.S. Patent No. 5,785,449 issued to DiBene (hereinafter referred to as "DiBene").

Claims 3, 14 and 19 were rejected under 35 U.S.C. §103(a) as being considered unpatentable variously over Gulistan, alone, or Gulistan in view of DiBene as applied to claims 1, 9, 13 and 17-18, and further in view of U.S. Patent No. 5,743,692 issued to Schwarz (hereinafter referred to as "Schwarz").

35 U.S.C. §102(b) Rejection of Claims 9-12

The Examiner has rejected claims 9-12 under 35 U.S.C. §102(b) as being considered to be anticipated by Gulistan. Applicant respectfully submits that claims 9-12 are not anticipated by Gulistan, because Gulistan does not teach each and every element of Applicant's invention as claimed.

Regarding at least claim 9, Applicant respectfully submits that Gulistan does not teach a soldering extension in the form of a solder flange providing a soldering surface at one end of a ferrule that is formed thereon prior to the coupling of the ferrule to a printed circuit board. Gulistan teaches having a reduced diameter portion that protrudes through a workpiece and "is bent

outwardly ... forming an upset head" that is received within a counterbore formed in the workpiece. Applicant respectfully maintains that although the Office Action asserts that this reduced diameter portion being bent outwardly in Gulistan anticipates the soldering extension of Applicant's claimed invention, nowhere within Gulistan is there any mention of the provision of any soldering surface or of any soldering taking place, at all, and the "upset head" of Gulistan is formed subsequent to the coupling of the reduced diameter portion to a workpiece. Applicant, therefore, respectfully asserts that it is not possible for the reduced diameter portion of Gulistan to in any way anticipate the soldering extension of Applicant's claimed invention.

Claims 10-12 depend, directly or indirectly, from independent claim 9, and therefore incorporate all of the limitations of claim 9 which Applicant has asserted are patentably distinguished over Gulistan.

For at least these reasons, Applicant respectfully submits that claims 9-12 are patentably distinguished over Gulistan, and are in condition for allowance.

35 U.S.C. § 103(a) Rejection of Claims 1-2, 4-8, 13, 15-18 and 20-22

The Examiner has rejected claims 1-2, 4-8, 13, 15-18 and 20-22 under 35 U.S.C. § 103(a) as being considered to be unpatentable over Gulistan in view of DiBene.

Applicant respectfully submits that claims 13 and 15-16 depend, directly or indirectly, from independent claim 9, and therefore, incorporate all of the limitations of claim 9, which Applicant has asserted is patentably distinguished over Gulistan.

Also, to establish *prima facie* obviousness of a claimed invention, all the claim limitations must be taught or suggested by the prior art. *In re Royka*, 490 F.2d 981, 180 USPQ 580 (CCPA 1974). (MPEP 2143.03). Applicant respectfully

submits that, as discussed above, Gulistan does not teach or suggest all the features of Applicant's invention as claimed.

As discussed earlier, Gulistan does not teach or suggest any soldering of a ferrule or other mounting apparatus to a PCB, and Applicant maintains that DiBene likewise does not teach or suggest any soldering of a ferrule or other mounting apparatus to a PCB. The reference within the Office Action to line 54 of column 6 of DiBene concerning soldering describes the possibility of soldering a portion of the jackscrew of DiBene to a "front panel" that is, itself, separately attached to a PCB. Although there is no mention of how the front panel is attached to the PCB in DiBene, it is clear from the depiction of the front panel and PCB in Figures 1 and 3 of DiBene that the front panel is something separate from the PCB, and that the front panel is made of metal (the crosshatching used for the cross section of the errantly numbered front panel in Figure 3 is the type of crosshatching required for a metallic object, and would not be appropriate crosshatching for a PCB). Therefore, the reference to aforementioned reference to soldering in DiBene is necessarily the soldering of a metal jackscrew to a metal panel, and not to a PCB. Applicant respectfully submits that it logically follows from the discussion in lines 9-28 of column 1 in DiBene of the forces encountered by jackscrews (and the resulting mechanical failure of jackscrews) that DiBene would teach the attachment of jackscrews to a metal member, and not directly to a PCB, since such forces capable of causing mechanical failure of jackscrews would likely cause cracks in a PCB, perhaps even breaking off portions of a PCB. Since neither Gulistan or DiBene teaches or suggests the soldering of any form of captive screw or any other mounting apparatus to a PCB, there can be no combination of Gulistan and DiBene that teaches this limitation.

For at least these reasons, Applicant respectfully submits that claims 1-2, 4-8, 13, 15-18 and 20-22 are patentably distinguished over any combination of Gulistan and DiBene, and are in condition for allowance.

35 U.S.C. § 103(a) Rejection of Claims 3, 14 and 19

The Examiner has rejected claims 3, 14 and 19 under 35 U.S.C. § 103(a) as being considered to be unpatentable over Gulistan, alone, or Gulistan in view of DiBene as applied to claims 1, 9, 13 and 17-18 (as discussed above), and further in view of Schwarz.

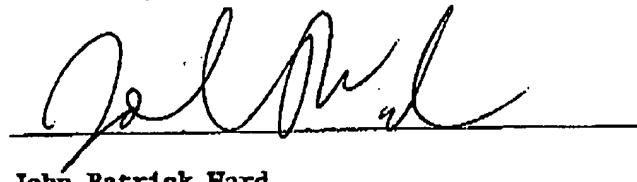
Applicant has cancelled claims 3, 14 and 19, thereby rendering this rejection moot.

Condition for Allowance

Applicant submits that all rejections and objections have been overcome and the present application is now in condition for allowance. If there are any additional charges or shortages related to the present communication, please charge our Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

  
John Patrick Ward

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